

# **FEDERAL ITEM IDENTIFICATION GUIDE**

## **AUTOMATIC DATA PROCESSING SYSTEM: INDUSTRIAL, SCIENTIFIC**

This Reprint replaces FIIG T297, dated May 4, 2007.



Commander

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BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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## GENERAL INFORMATION

### 1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

### 2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

#### a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

#### b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (\*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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### c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

#### (1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (\*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

#### (2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

#### (b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (\*). Steps (1) through (6) are repeated for each application of the requirement.

#### (c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (\*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

### (3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

### (4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

### (5) Reply Code:

A code that represents an established authorized reply to a requirement.

#### d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

#### e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

#### f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

#### g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode</u> <u>Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGW OVEN WIRE CLOTH*

### 4. Special Instructions and Indicator Definitions

#### a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

#### b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

### 5. Indexes

#### a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

#### b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

#### c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

### 6. Maintenance

Requests for revisions and other changes will be directed to:

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## INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
COUNTER, ELECTRONIC, DIGITAL READOUT	26835	AA
An instrument used to count the frequency of recurrent electronic events and display the count on the panel of the instrument in numeric form. May also include facilities for a readout printed on tape. May include facilities for a very accurate output which can be used as a secondary transfer standard. It can be used to measure frequency, period, time interval, phase angle, frequency ratio, and for multiple period averaging. See also COUNTER, ELECTRONIC, DIGITAL and INDICATOR, DIGITAL DISPLAY.		
TAPE, ELECTRONIC DATA PROCESSING	21811	CB
A thin flexible strip of material with a layer of magnetic coating on one surface on which character information is recorded while processing at electronic speeds. The information is recorded in the form of magnetized spots, for storage or reproduction in printed or punched card form. May be in roll form or encased in a cartridge or cassette. For items not specifically designed for use in electronic data processing see TAPE SOUND RECORDING. For prerecorded disk or tape computer programs see DISK PROGRAM, AUTOMATIC DATA PROCESSING and TAPE PROGRAM, AUTOMATIC DATA PROCESSING.		
TAPE, INSTRUMENTATION RECORDING	37133	CB
A thin flexible strip of nonmagnetic material with a magnetizable coating upon which electronic information other than sound, video, or automatic data processing is recorded by magnetic means. Excludes TAPE, ELECTRONIC DATA PROCESSING; TAPE, SOUND RECORDING and TAPE, VIDEO RECORDING.		
TAPE, PUNCHED PROGRAM	26234	CA
May be in roll form or encased in a cartridge or cassette.		
Transmitter		
1. A device which receives or generates and/or modulates or modifies energy impulse and converts it to another type of energy impulse to permit and/or facilitate transmission.		
TRANSMITTER (1), COORDINATE DATA	11463	BA
A transmitter which accepts two or more coordinates, such as those representing a target position, and converts them into an electrical form suitable for transmission. Excludes TRANSMITTER, DIGITAL DATA.		
TRANSMITTER (1), DIGITAL DATA	11464	BA
A transmitter that provides a digitized multiplexed composite output carrier signal derived from two or more input signals from another component, such as a computer. Excludes TRANSMITTER, COORDINATE DATA.		

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## APPLICABILITY KEY INDEX

### AA

NAME	X
BFHZ	X
BFJB	X
BFJC	X
BFJF	AR
BFJG	AR
BFQH	AR
BFQJ	AR
BFQK	AR
BFQL	AR
BFQM	X
BFQN	X
BFQP	X
BFQQ	X
BFQR	X
BFQS	X
BFQT	X
BFQW	X
ASKX	X
AGBD	AR
ACDC	X
AMSE	X
ACZB	AR
FAAZ	AR
ABJL	X
ALSF	X
BFQX	X
BFQY	AR
ABHP	AR
ABMK	AR
ADAV	AR
ABKW	AR
AXGY	AR
BFQZ	X
BFRB	X
APTS	AR
BFRC	AR
BFRD	AR
BFRF	AR
AFHS	AR
AKVY	AR
AZCG	AR
AKVZ	AR
AKWA	AR
AKWB	AR
FEAT	AR
TEST	AR
SPCL	AR

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ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
NHCF	AR
ELCD	AR
AFJK	AR
AGAV	AR
ALXZ	AR
AWJN	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
FCLS	AR
FTLD	AR
TMDN	AR
RTSE	AR
RDAL	AR
NTRD	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

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BA

NAME	X
BCLS	X
BCLT	X
APTR	X
BCLW	X
BCLX	X
BCYT	AR
AYYE	AR
APQG	AR
BCYW	AR
AKWC	AR
ACYN	AR
ACZB	AR
FAAZ	AR
ACYR	AR
ALSF	AR
AXGY	AR
ABHP	AR
ABMK	AR
ABKW	AR
ABFY	AR
ADUM	AR
AKWA	AR
AKWB	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
NHCF	AR
ELCD	AR
AFJK	AR
AGAV	AR
ALXZ	AR
AWJN	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
FCLS	AR
FTLD	AR
TMDN	AR
RTSE	AR
RDAL	AR
NTRD	AR
ZZZP	AR
ZZZV	AR

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CXC Y      AR

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	<u>CA</u>	<u>CB</u>
NAME	X	X
MATL	X	X
ABGL	X	X
ABRY		X
BCYX	AR	
AASH		X
BCYY	AR	AR
ADAV	AR	AR
ABMK	AR	AR
BCYZ	AR	AR
ABKV	AR	AR
BCZB	AR	AR
BCZC		X
AERK		X
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
NHCF	AR	AR
ELCD	AR	AR
AFJK	AR	AR
AGAV	AR	AR
ALXZ	AR	AR
AWJN	AR	AR
PRMT	AR	AR
PMWT	AR	AR
PMLC	AR	AR
SUPP	AR	AR
FCLS	AR	AR
FTLD	AR	AR
TMDN	AR	AR
RTSE	AR	AR
RDAL	AR	AR
NTRD	AR	AR
ZZZP	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

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## Body

### SECTION: A

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED26835\*)

ALL

BFHZ	D	MEASUREMENT TYPE
------	---	------------------

Definition: INDICATES THE TYPE OF MEASUREMENT PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFHZDBS\*; BFHZDBS\$\$DBW\*)

<u>REPLY CODE</u>	<u>REPLY (AJ52)</u>
BS	FREQUENCY
BW	PERIOD AVERAGE
BX	RATIO
CS	TIME
EJ	TIME INTERVAL
EK	TOTALIZING

ALL

BFJB	J	FREQUENCY RANGE
------	---	-----------------

Definition: THE RANGE OF COMPLETE CYCLIC CHANGES, PER UNIT OF TIME, FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric values, separated by a slash. Precede each value with a P. (e.g., BFJB MATRP0.000/P1.000\$JMATSP0.000/P1.000\*)

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APP  
Key MRC Mode Code Requirements

---

If the frequency range of the item is between two units of measure, enter the applicable Reply Code for the unit of measure of the highest frequency, followed by the numeric values. (For example: 10 hertz to 10 kilohertz, enter as BFJBKATRP0.010/P10.000\*)

Table 1

REPLY CODE

G

E

K

M

REPLY (AC32)

GIGAHERTZ

HERTZ

KILOHERTZ

MEGAHERTZ

Table 2

REPLY CODE

ATR

ATS

ATT

ATW

ATX

REPLY (AK54)

F1 INPUT RATIO

F2 INPUT RATIO

MULTIPLE PERIOD

OVERALL

SINGLE PERIOD

ALL

BFJC G ACCURACY RATING

Definition: AN INDICATION OF THE DEVIATION FROM A STANDARD OR TRUE VALUE FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the reply in clear text. (e.g., BFJCGPORM TIME BASE\*)

Separate multiple replies with a semicolon, entering in the same sequence as MRC BFJB. (e.g., BFJCGPORM TRIGGER ERROR:PORM TRIGGER ERROR OF F2\*)

NOTE FOR MRC BFJF: IF REPLY CODE BS, CS, OR EJ IS ENTERED FOR MRC BFHZ, REPLY TO MRC BFJF.

ALL \* (See Note Above)

BFJF J GATE TIME

Definition: THE INTERVAL OF TIME DURING WHICH THE ITEM PROVIDES A SIGNAL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BFJFJARA10.0\*; BFJFJALB0.1\$\$JALC10.0\*; BFJFJALA1.0\$\$JALA10.0\*)

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APP Key	MRC	Mode Code	Requirements
<hr/>			
<u>Table 1</u>			
		<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
		AL	MICROSECONDS
		AR	SECONDS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

NOTE FOR MRCS BFJG AND BFQH: IF REPLY CODE BX IS ENTERED FOR MRC BFHZ, REPLY TO MRCS BFJG AND BFQH.

ALL \* (See Note Above)

BFJG            G            SENSITIVITY RATING

Definition: THE RATED SENSITIVITY OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., BFJGG10 KILOHMS PER VOLT\*)

Separate multiple replies with a semicolon. (e.g., BFJGG100.0 MV RMS SINEWAVE;0.3 V PEAK PULSE\*)

ALL \* (See Note Preceding MRC BFJG)

BFQH            G            RATIO DISPLAY

Definition: THE VISUAL PRESENTATION OF THE RATIO INFORMATION.

Reply Instructions: Enter the reply in clear text. (e.g., BFQHGF1/F2 TIMES PERIOD MULTIPLIER\*)

Separate multiple replies with a semicolon. (e.g., BFQHGF1/F2 TIMES PERIOD MULTIPLIER;INPUT FUNCTION TIMES PERIOD MULTIPLIER\*)

NOTE FOR MRCS BFQJ, BFQK, AND BFQL: IF REPLY CODE BW OR EK IS ENTERED FOR MRC BFHZ, REPLY TO THESE MRCS.

ALL \* (See Note Above)

BFQJ            F            PERIOD RANGE

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Key	MRC	Mode Code	Requirements

---

Definition: THE MINIMUM AND MAXIMUM NUMBER OF PERIODS.

Reply Instructions: Enter the numeric values separated by a slash. Precede each value with a P. (e.g., BFQJFP0.0/P10000000.0\$\$FP0.0/P100000000.0\*)

ALL \* (See Note Preceding MRC BFQJ)

BFQK                      J                      PERIOD RANGE STEP QUANTITY

Definition: THE NUMBER OF PERIOD RANGE STEPS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., BFQKJAHS5\*)

<u>REPLY CODE</u>	<u>REPLY (AJ12)</u>
AHS	DECADE STEPS
AHT	UNIT STEPS

ALL \* (See Note Preceding MRC BFQJ)

BFQL                      J                      COUNT RATE

Definition: AN INDICATION OF THE COUNT RATE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., BFQLJEAATX100.0\*)

For single and multiple periods, use AND coding (\$\$), entering the single period first followed by the multiple periods. (e.g., BFQLJKAATX0.0\$\$JKAATX100.0\*; BFQLJKAATX1.0\$\$JKAATT300.0\*; BFQLJKBATX100.0\$\$JKCATX150.0\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
E	HERTZ
K	KILOHERTZ
M	MEGAHERTZ

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

Table 3

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Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

REPLY CODE

ATT  
ATX

REPLY (AK54)

MULTIPLE PERIOD  
SINGLE PERIOD

ALL

BFQM	D	INTERNAL CALIBRATION FEATURE
------	---	------------------------------

Definition: AN INDICATION OF WHETHER OR NOT AN INTERNAL CALIBRATION FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQMDB\*)

REPLY CODE

B  
C

REPLY (AA49)

INCLUDED  
NOT INCLUDED

ALL

BFQN	D	DISPLAY TYPE
------	---	--------------

Definition: INDICATES THE TYPE OF DISPLAY PROVIDED.

Reply Instructions: Enter the applicable reply code from the table below. (e.g., BFQNDATY\*; BFQNDATY\$\$DATZ\*)

REPLY CODE

A  
FJW  
FJX  
ATY  
ATZ  
FTE  
FTF

REPLY (AK54)

ANY ACCEPTABLE  
LIGHT EMITTING DIODE  
LIQUID CRYSTAL  
NEON COLUMNAR  
NUMERIC READOUT TUBE  
PLASTIC GAS  
VACUUM FLUORESCENT

ALL

BFQP	A	DISPLAY DIGIT QUANTITY
------	---	------------------------

Definition: THE NUMBER OF DIGITS DISPLAYED.

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Key MRC Mode Code Requirements

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Reply Instructions: Enter the quantity. (e.g., BFQPA4\*)

ALL

BFQQ D DISPLAY UNITS INDICATOR

Definition: AN INDICATION OF WHETHER OR NOT A DISPLAY UNITS INDICATOR IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQQDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

BFQR D DISPLAY POSITIONED DECIMAL POINT

Definition: AN INDICATION OF WHETHER OR NOT A DISPLAY POSITIONED DECIMAL POINT IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQRDB\*)

<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
C	NOT PROVIDED
B	PROVIDED

ALL

BFQS D DISPLAY STORAGE FACILITY

Definition: AN INDICATION OF WHETHER OR NOT A DISPLAY STORAGE FACILITY IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQSDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

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Key	MRC	Mode Code	Requirements

---

ALL

BFQT                      D                      REMOTE CONTROL PROVISIONS

Definition: AN INDICATION OF WHETHER OR NOT PROVISIONS FOR REMOTE CONTROL ARE INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQTDDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

BFQW                      D                      SOLID STATE FEATURE

Definition: AN INDICATION OF WHETHER OR NOT A SOLID STATE FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQWDB\*)

Solid state is defined as completely transistorized, no electron tubes.

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

ASKX                      A                      ELECTRICAL CONNECTION QUANTITY

Definition: THE NUMBER OF ELECTRICAL CONNECTIONS PROVIDED.

Reply Instructions: Enter the quantity. (e.g., ASKXA2\*; ASKXA3\$\$A4\*)

ALL \*

AGBD                      D                      ELECTRICAL CONNECTION TYPE

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APP  
Key MRC Mode Code Requirements

---

Definition: INDICATES THE TYPE OF ELECTRICAL CONNECTION INCLUDED ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGBDDDX\*; AGBDDDX\$DDW\*)

<u>REPLY CODE</u>	<u>REPLY (AE79)</u>
ET	BINDING POST
DW	BNC
EB	CONNECTOR PLUG
AB	CONNECTOR RECEPTACLE
DX	UHF

ALL

ACDC D CURRENT TYPE

Definition: INDICATES THE TYPE OF CURRENT WHETHER ALTERNATING, DIRECT, OR BOTH.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACDCDB\*; ACDCDB\$DC\*)

When the source document specifies the voltage rating is identical for both AC and DC, enter Reply Code D.

<u>REPLY CODE</u>	<u>REPLY (AB62)</u>
B	AC
D	AC/DC
C	DC

ALL

AMSE J VOLTAGE RATING

Definition: THE VALUE(S) OF POTENTIAL FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AMSEJVA117.0\*; AMSEJVB100.0\$JVC120.0\*; AMSEJVA115.0\$JVA230.0\*)

<u>Table 1</u> <u>REPLY CODE</u>	<u>REPLY (AB63)</u>
K	KILOVOLTS

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APP

Key MRC Mode Code Requirements

---

V VOLTS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

NOTE FOR MRCS ACZB AND FAAZ: IF ITEM IS OPERATED BY ALTERNATING CURRENT, REPLY TO THESE MRCS.

ALL \* (See Note Above)

ACZB J FREQUENCY RATING

Definition: THE NUMBER OF COMPLETE CYCLIC CHANGES, PER UNIT OF TIME, FOR WHICH AN ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACZBJEA60.0\*; ACZBJEB50.0\$JEC60.0\*; ACZBJEA50.0\$JEA60.0\*)

Table 1

REPLY CODE

G

E

K

M

REPLY (AC32)

GIGAHERTZ

HERTZ

KILOHERTZ

MEGAHERTZ

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \* (See Note Preceding MRC ACZB)

FAAZ D PHASE

Definition: THE NUMBER OF ALTERNATING CURRENT PHASES.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., FAAZDA\*; FAAZDA\$DB\*)

FIIG T  
Section Parts

APP

Key    MRC                      Mode Code    Requirements

---

REPLY CODE

A  
E  
C  
B

REPLY (AD02)

SINGLE  
SINGLE/THREE  
THREE  
TWO

ALL

ABJL                      B                      WATTAGE RATING IN WATTS

Definition: THE RATED POWER THAT AN ITEM CAN SAFELY CONSUME OR PROVIDE, MEASURED IN WATTS.

Reply Instructions: Enter the numeric value. (e.g., ABJLB32.0\*; ABJLB40.0\$B45.0\*)

ALL

ALSF                      D                      INTERNAL BATTERY ACCOMMODATION

Definition: AN INDICATION OF WHETHER OR NOT A FACILITY(IES) TO ACCOMMODATE A BATTERY(IES) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALSFDB\*)

REPLY CODE

B  
C

REPLY (AA49)

INCLUDED  
NOT INCLUDED

ALL

BFQX                      H                      INCLOSURE MATERIAL AND LOCATION

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE INCLOSURE IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT, AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Codes from [Appendix A](#), Table 1, and the table below. (e.g., BFQXHALC000ABQ\*)

FIIG T  
Section Parts

APP

Key MRC Mode Code Requirements

---

When multiple or optional materials are specified for more than one location, use AND/OR (\$/\$) Coding. The AND (\$\$) Coding will be used to separate multiple locations with AND/OR (\$/\$) Coding separating the materials.

(e.g., BFQXHALC000ABQ\$HAL0000ABQ\$\$HPC0000AZM\$\$HPCAAARAZM\*)

REPLY CODE

ABQ  
AZM

REPLY (AJ91)

BODY  
CASE

ALL \*

BFQY H INCLOSURE SURFACE TREATMENT AND LOCATION

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE, AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below. (e.g., BFQYHPHD000ABQ\*)

When multiple or optional materials are specified for more than one location, use AND/OR (\$/\$) Coding. The AND (\$\$) Coding will be used to separate multiple locations with AND/OR (\$/\$) Coding separating the materials.

(e.g., BFQYHAN0000ABQ\$HEN0000ABQ\$\$HAN0000AZM\$\$HEN0000AZM\*)

Table 1

REPLY CODE

AN0000  
CD0000  
CN0000  
EN0000  
PNG000  
PHD000

REPLY (AD09)

ANODIZED  
CADMIUM  
CHROMATE (Iridite) (Cronak)  
ENAMEL  
PAINT  
PHOSPHATE DIP

Table 2

REPLY CODE

ABQ  
AZM

REPLY (AJ91)

BODY  
CASE

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL \*

ABHP                      J                      OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA8.000\*; ABHPJLA203.2\*; ABHPJAB3.500\$\$JAC4.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

ABMK                      J                      OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA2.500\*; ABMKJLA63.5\*; ABMKJAB3.500\$\$JAC4.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL \*

ADAV                      J                      OVERALL DIAMETER

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA2.400\*; ADAVJLA63.1\*; ADAVJAB3.500\$\$JAC4.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

ABKW                      J                      OVERALL HEIGHT

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA2.500\*; ABKWJLA63.5\*; ABKWJAB3.500\$\$JAC4.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL \*

AXGY            D            MOUNTING METHOD

Definition: THE MEANS OF ATTACHING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AXGYDABF\*; AXGYDABF\$\$DABR\*; AXGYDAPY\$DABR\*)

<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
A	ANY ACCEPTABLE
APY	BENCH
ABF	CASE
ABR	RACK

ALL

BFQZ            D            PLUG-IN UNITS PROVISION

Definition: AN INDICATION OF WHETHER OR NOT A PROVISION FOR PLUG-IN UNITS IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFQZDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

BFRB            D            STANDARD FREQUENCY OUTPUT FEATURE

Definition: AN INDICATION OF WHETHER OR NOT A STANDARD FREQUENCY(IES) OUTPUT FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFRBDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

---

NOTE FOR MRCS APTS, BFRC, BFRD, AND BFRF: IF REPLY CODE B IS ENTERED FOR MRC BFRB, REPLY TO THESE MRCS.

ALL \* (See Note Above)

APTS                    J                    OUTPUT FREQUENCY RATING

Definition: THE NUMBER OF COMPLETE CYCLIC CHANGES, PER UNIT OF TIME, FOR WHICH THE OUTPUT IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., APTSJK A100.0\*; APTSJK B0.1\$\$JKC100.0\*)

Table 1

REPLY CODE

G  
E  
K  
M

REPLY (AC32)

GIGAHERTZ  
HERTZ  
KILOHERTZ  
MEGAHERTZ

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL \* (See Note Preceding MRC APTS)

BFRC                    G                    FREQUENCY ACCURACY/STABILITY

Definition: AN INDICATION OF THE ALLOWABLE FREQUENCY ACCURACY OR STABILITY OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., BFRCG5 PARTS PER 100,000,000 PER WEEK\*)

ALL \* (See Note Preceding MRC APTS)

BFRD                    D                    OUTPUT FREQUENCY WAVEFORM

Definition: THE SHAPE OF THE OUTPUT FREQUENCY WAVEFORM.

FIIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

---

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BFRDDBA\*; BFRDDAW\$\$DBB\*)

<u>REPLY CODE</u>	<u>REPLY (AJ52)</u>
A	ANY ACCEPTABLE
AW	PULSE
AX	RECTANGULAR WAVE
AZ	SINE WAVE
BA	SINUSOIDAL
BB	SQUARE WAVE

ALL \* (See Note Preceding MRC APTS)

BFRF                    J                    FREQUENCY OUTPUT AMPLITUDE

Definition: THE MAXIMUM ABSOLUTE VALUE OF THE FREQUENCY OUTPUT PULSE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BFRFJVC15.0\*; BFRFJVC1.0\$\$JVC1.5\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AB63)</u>
K	KILOVOLTS
L	MILLIVOLTS
V	VOLTS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AF65)</u>
C	PEAK
H	PEAK TO PEAK

ALL \*

AFHS                    A                    ACCESSORY COMPONENT QUANTITY

Definition: THE NUMBER OF PARTS SUPPLIED WITH THE ITEM WHICH MAY BE REQUIRED FOR APPLICATION.

Reply Instructions: Enter the quantity. (e.g., AFHSA4\*; AFHSA6\$\$A8\*)

ALL \*

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
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AKVY	G	ACCESSORY CONTROLLING AGENCY
------	---	------------------------------

Definition: THE NAME OF THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION THAT CONTROLS THE MANUFACTURE OF THE ACCESSORY ITEM.

Reply Instructions: Enter the controller's name. (e.g., AKVYGSIGNAL CORPS\*)

Separate multiple replies with a semicolon. (e.g.,

AKVYGSIGNAL CORPS;HEWLETT-PACKARD CO\*)

ALL \*

AZCG	G	ACCESSORY COMPONENT NAME
------	---	--------------------------

Definition: THE NAME OF THE ACCESSORY COMPONENT ASSIGNED BY THE CONTROLLING AGENCY.

Reply Instructions: Enter the reply in clear text. (e.g., AZCGGCOAXIAL OUTPUT CABLE\*)

Separate multiple replies with a semicolon. (e.g., AZCGGCOAXIAL OUTPUT CABLE;CABLE ASSEMBLY\*)

ALL \*

AKVZ	J	ACCESSORY IDENTIFYING NUMBER
------	---	------------------------------

Definition: THE SPECIFIC NUMBER USED TO IDENTIFY THE ACCESSORY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the identifying number.

(e.g., AKVZJAE79614\*;

AKVZJAC5-1686\$\$JAE98756\*)

REPLY CODE

AB  
AC  
AD  
AE  
AF

REPLY (AG99)

DRAWING NO.  
MODEL NO.  
PART NO.  
SERIAL NO.  
TYPE NO.

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APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL *			
	AKWA	G	JOINT ELECTRONICS TYPE DESIGNATION SYSTEM ITEM NAME
	Definition: THE NAME ASSIGNED TO THE ITEM BY THE JOINT ELECTRONICS TYPE DESIGNATION SYSTEM.		
	Reply Instructions: Enter the reply in clear text. (e.g., AKWAGPUBLIC ADDRESS SET*)		
	Separate multiple replies with a semicolon. (e.g., AKWAGPUBLIC ADDRESS SET;COUNTER,ELECTRONIC DIGITAL READOUT*)		
ALL *			
	AKWB	G	JOINT ELECTRONICS TYPE DESIGNATION SYSTEM ITEM TYPE NUMBER
	Definition: THE TYPE NUMBER ASSIGNED TO THE ITEM BY THE JOINT ELECTRONICS TYPE DESIGNATION SYSTEM.		
	Reply Instructions: Enter the reply in clear text. (e.g., AKWBGAN/TIPIA*)		
	Separate multiple replies with a semicolon.		
	(e.g., AKWBGAN/TIPIA;AN/USM-326 PAREN*)		

FIIG T  
Section Parts

**SECTION: B**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED11463\*)

ALL

BCLS	D	INPUT TYPE
------	---	------------

Definition: INDICATES THE TYPE OF INPUT(S) PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCLSDAE\*)

REPLY CODE

AE

AG

REPLY (AK74)

ELECTRICAL

MECHANICAL

ALL

BCLT	A	INPUT QUANTITY
------	---	----------------

Definition: THE NUMBER OF INPUTS PROVIDED.

Reply Instructions: Enter the quantity. (e.g., BCLTA48\*)

ALL

APTR	J	OUTPUT FREQUENCY BANDWIDTH
------	---	----------------------------

Definition: THE NUMBER OF CYCLES PER SECOND (HERTZ) EXPRESSING THE DIFFERENCES BETWEEN THE LIMITING FREQUENCIES OF AN OUTPUT BAND.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., APTRJEA110.0\*; APTRJEB200.0\$\$JEC600.0\*)

Table 1

REPLY CODE

REPLY (AC32)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		E	HERTZ
		K	KILOHERTZ
		<u>Table 2</u> <u>REPLY CODE</u>	
		A	<u>REPLY (AC20)</u> NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL

BCLW          J                  OUTPUT LEVEL RATING

Definition: AN INDICATION OF THE RATED OUTPUT LEVEL OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Precede negative values with an M. (e.g., BCLWJDXA10.0\*; BCLWJDXB3.0\$\$JDXC6.0\*; BCLWJDXBM35.0\$\$JDXC5.0\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
DX	DECIBELS ABOVE 1 MILLIWATT (DBM)
DY	DECIBELS ABOVE 1 PICOWATT (DBP)

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

BCLX          D                  CONTINUOUSLY VARIABLE LEVEL FEATURE

Definition: AN INDICATION OF WHETHER OR NOT A CONTINUOUSLY VARIABLE LEVEL FEATURE IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCLXDB\*)

<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
C	NOT PROVIDED
B	PROVIDED

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

---

ALL \*

BCYT	D	PARALLAX CORRECTION METHOD
------	---	----------------------------

Definition: THE MEANS USED FOR PARRALLAX CORRECTION OF AN ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCYTDAB\*; BCYTDAB\$\$DAE\*)

<u>REPLY CODE</u>	<u>REPLY (AK73)</u>
AB	ANALOG
AE	DIGITAL

ALL \*

AYYE	D	MODULATION TYPE
------	---	-----------------

Definition: INDICATES THE TYPE OF MODULATION PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AYYEDAW\*; AYYEDDT\$DAW\*)

<u>REPLY CODE</u>	<u>REPLY (AJ52)</u>
DT	FREQUENCY SHIFT
AW	PULSE

ALL \*

APQG	D	MULTIPLEXING METHOD
------	---	---------------------

Definition: THE TRANSMITTING METHOD WHICH IDENTIFIES THE FUNCTIONAL DESIGN OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APQGDAC\*; APQGDAB\$DAC\*)

<u>REPLY CODE</u>	<u>REPLY (AK68)</u>
AB	FREQUENCY DIVISION
AC	TIME DIVISION

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL \*

BCYW      J      MULTIPLEXING FREQUENCY RATING

Definition: THE NUMBER OF MULTIPLEXING COMPLETE CYCLIC CHANGES, PER UNIT OF TIME, FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCYWJEA600.0\*; BCYWJEB540.0\$\$JEC660.0\*)

Table 1

REPLY CODE

E

K

REPLY (AC32)

HERTZ

KILOHERTZ

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

NOTE FOR MRC AKWC: WHEN THE SOLE POWER SOURCE IS SELF-CONTAINED OR WHEN A SINGLE POWER SOURCE IS CITED, REPLY TO MRC AKWC. FOR MORE THAN ONE EXTERNAL POWER SOURCE, REPLY TO MRCS ACYN, ACZB, FAAZ, ACYR AND ALSF, AS APPLICABLE.

ALL \* (See Note Above)

AKWC      D      ELECTRICAL POWER SOURCE RELATIONSHIP

Definition: THE RELATIONSHIP OF THE ELECTRICAL POWER SOURCE TO THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AKWCDAB\*)

A self-contained power source shall be interpreted as being a power source, such as a gasoline or diesel engine generator, or vehicular electrical system when the vehicle utilized as the power source is included in the item.

When the item includes a self-contained power source and the item is also designed for operation from an external power source, the external power source is considered alternate operating. Under this condition reply only alternate operating.

FIIG T  
Section Parts

APP  
Key    MRC            Mode Code    Requirements

---

When the item is powered by external power source(s) only, it is considered operating.  
When the item is powered solely by internal batteries, these batteries do not constitute a self-contained power source but are considered operating.

<u>REPLY CODE</u>	<u>REPLY (AH00)</u>
AB	ALTERNATE OPERATING
AC	OPERATING
AD	SELF-CONTAINED

NOTE FOR MRCS ACYN, ACZB, FAAZ, ACYR, AND ALSF: REPLY TO THESE MRCS AS APPLICABLE, IF OTHER THAN REPLY CODE AD IS ENTERED FOR MRC AKWC. FOR MULTIPLE REPLIES, SEE APPENDIX C, TABLE 1, FOR RECORDING INSTRUCTIONS.

ALL \* (See Note Above)

ACYN            J                    AC VOLTAGE RATING

Definition: THE VALUE, OR RANGE OF VALUES, OF ROOT MEAN SQUARE POTENTIAL FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable I/SAC from [Appendix C](#), Table 1, followed by the Mode Code, followed by the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.(e.g., ACYN1AJVA110.0\*; ACYN1AJVB108.0\$\$JVC115.0\*; ACYN1BJVA120.0\$\$JVA240.0\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AB63)</u>
K	KILOVOLTS
M	MEGA VOLTS
U	MICROVOLTS
L	MILLIVOLTS
V	VOLTS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL \* (See Note Preceding MRC ACYN)

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

ACZB	J	FREQUENCY RATING
------	---	------------------

Definition: THE NUMBER OF COMPLETE CYCLIC CHANGES, PER UNIT OF TIME, FOR WHICH AN ITEM IS RATED.

Reply Instructions: Enter the applicable I/SAC from [Appendix C](#), Table 1, followed by the Mode Code, followed by the Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter in the same sequence as MRC ACYN. (e.g., ACZB1AJEA60.0\*; ACZB1AJEB50.0\$\$JEC60.0\*; ACZB1BJEA50.0\$\$JEA60.0\*)

Table 1

REPLY CODE

G  
E  
K  
M

REPLY (AC32)

GIGAHERTZ  
HERTZ  
KILOHERTZ  
MEGAHERTZ

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL \* (See Note Preceding MRC ACYN)

FAAZ	D	PHASE
------	---	-------

Definition: THE NUMBER OF ALTERNATING CURRENT PHASES.

Reply Instructions: Enter the applicable I/SAC from [Appendix C](#), Table 1, followed by the Mode Code, followed by the Reply Code from the table below. Entering in the same sequence as MRC ACYN. (e.g., FAAZ1ADB\*; FAAZ1BDA\$\$DC\*)

REPLY CODE

A  
E  
C  
B

REPLY (AD02)

SINGLE  
SINGLE/THREE  
THREE  
TWO

ALL \* (See Note Preceding MRC ACYN)

ACYR	J	DC VOLTAGE RATING
------	---	-------------------

FIIG T  
Section Parts

APP  
Key    MRC            Mode Code    Requirements

Definition: THE VALUE, OR RANGE OF VALUES, OF DIRECT CURRENT POTENTIAL FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable I/SAC from [Appendix C](#), Table 1, followed by the Mode Code, followed by the Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACYR1AJVA12.0\*; ACYRJ1BVB24.0\$\$JVC28.0\*; ACYR1AJVA150.0\$\$JVA250.0\*)

Table 1

REPLY CODE

K

M

U

L

V

REPLY (AB63)

KILOVOLTS

MEGA VOLTS

MICROVOLTS

MILLIVOLTS

VOLTS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \* (See Note Preceding MRC ACYN)

ALSF            D            INTERNAL BATTERY ACCOMMODATION

Definition: THE INDICATION OF WHETHER OR NOT A FACILITY(IES) TO ACCOMMODATE A BATTERY(IES) IS INCLUDED.

Reply Instructions: Enter the applicable I/SAC from [Appendix C](#), Table 1, followed by the Mode Code, followed by the Reply Code from the table below. (e.g., ALSF1ADB\*; ALSF1BDB\$\$DC\*; ALSF1MDC\$\$DB\*)

REPLY CODE

B

C

REPLY (AA49)

INCLUDED

NOT INCLUDED

ALL \*

AXGY            D            MOUNTING METHOD

Definition: THE MEANS OF ATTACHING THE ITEM.

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AXGYDALY\*; AXGYDALY\$DALX\*)

<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
A	ANY ACCEPTABLE
ALX	CAPTIVE BOLT
ALY	DRAWER
AFW	FRAME
ABR	RACK
ALG	SHELF

ALL \*

ABHP            J            OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA8.000\*; ABHPJLA203.2\*; ABHPJAB3.500\$\$JAC4.000\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL \*

ABMK            J            OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA2.500\*; ABMKJLA62.3\*; ABMKJAB3.500\$\$JAC4.000\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

ABKW	J	OVERALL HEIGHT
------	---	----------------

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA2.500\*; ABKWJLA63.2\*; ABKWJAB3.500\$\$JAC4.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

ABFY	J	OVERALL DEPTH
------	---	---------------

Definition: AN OVERALL MEASUREMENT BETWEEN SPECIFIED POINTS OF AN ITEM, IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABFYJAA2.400\*; ABFYJLA63.2\*; ABFYJAB3.500\$\$JAC4.000\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

ADUM	J	OVERALL THICKNESS
------	---	-------------------

Definition: A MEASUREMENT OF THE OVERALL DIMENSION OF AN ITEM, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADUMJAA2.500\*; ADUMJLA63.2\*; ADUMJAB3.500\$\$JAC4.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

AKWA	G	JOINT ELECTRONICS TYPE DESIGNATION SYSTEM ITEM NAME
------	---	--

Definition: THE NAME ASSIGNED TO THE ITEM BY THE JOINT ELECTRONICS TYPE DESIGNATION SYSTEM.

Reply Instructions: Enter the reply in clear text. (e.g., AKWAGTRANSMITTER,COORDINATE DATA\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

---

ALL \*

AKWB	G	JOINT ELECTRONICS TYPE DESIGNATION SYSTEM ITEM TYPE NUMBER
------	---	---

Definition: THE TYPE NUMBER ASSIGNED TO THE ITEM BY THE JOINT  
ELECTRONICS TYPE DESIGNATION SYSTEMS.

Reply Instructions: Enter the reply in clear text. (e.g., AKWBGAN45A12\*)

FIIG T  
Section Parts

**SECTION: C**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED26234\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDPCAC00\*; MATLDALC000\$\$DPC0000\*; MATLDALC000\$DPC0000\*)

ALL

ABGL	J	WIDTH
------	---	-------

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA0.629\*; ABGLJLA15.9\*; ABGLJAB0.628\$\$JAC0.630\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

CB

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	ABRY	J	LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABRYJFA2400.000\*; ABRYJMA825.4\*; ABRYJFB2400.000\$JFC3000.000\*)

Table 1

REPLY CODE

F  
A  
M  
L

REPLY (AA05)

FEET  
INCHES  
METERS  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

CA\*

BCYX	G	PROGRAM TITLE
------	---	---------------

Definition: AN INDICATION OF THE PROGRAM TITLE.

Reply Instructions: Enter the reply in clear text. (e.g., BCYXGROCKET ENGINE THRUST TEST\*)

Separate multiple replies with a semicolon. (e.g., BCYXGROCKET ENGINE THRUST TEST;GUIDANCE COMPUTER SIMULATOR\*)

CB

AASH	J	MINIMUM TENSILE STRENGTH
------	---	--------------------------

Definition: THE MAXIMUM LOAD IN TENSION APPLIED IN A LONGITUDINAL DIRECTION, PER UNIT OF CROSS-SECTIONAL AREA, THAT THE MATERIAL CAN WITHSTAND WITHOUT RUPTURE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AASHJP12\*; AASHJP18\$JP19\*)

FIIG T  
Section Parts

APP										
Key	MRC		Mode Code							Requirements

---

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AASHKN\*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
Z	KILOGRAMS
K	KILOGRAMS PER SQUARE CENTIMETER
P	POUNDS
V	POUNDS PER SQUARE INCH

ALL \*

BCYY	D	REEL MATERIAL
------	---	---------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE REEL IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., BCYYDME0000\*; BCYYDALC000\$DPC0000\*; BCYYDME0000\$\$DPC0000\*)

ALL \*

ADAV	J	OVERALL DIAMETER
------	---	------------------

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA2.400\*; ADAVJLA63.2\*; ADAVJAB3.500\$\$JAC4.000\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL \*

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	ABMK	J	OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Includes thickness of flanges. (e.g., ABMKJAA1.000\*; ABMKJLA25.4\*; ABMKJAB0.937\$\$JAC1.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

BCYZ	J	ARBOR OVERALL DIAMETER
------	---	------------------------

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE OF AN ARBOR.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCYZJAA1.000\*; BCYZJLA25.4\*; BCYZJAB2.060\$\$JAC2.100\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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---

ABKV	J	OUTSIDE DIAMETER
------	---	------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ITEM IN PLAIN VIEW AND TERMINATES AT THE OUTER PERIPHERY.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKVJAA10.500\*; ABKVJLA266.7\*; ABKVJAB10.000\$\$JAC11.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL \*

BCZB	J	CENTER HOLE INSIDE DIAMETER
------	---	-----------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE CENTER HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCZBJAA2.000\*; BCZBJLA50.8\*; BCZBJAB1.875\$\$JAC2.000\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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CB

BCZC	D	FILE PROTECTION RING
------	---	----------------------

Definition: AN INDICATION OF WHETHER OR NOT A FILE PROTECTION RING IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BCZCDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

CB

AERK	D	GROUNDING PROVISION
------	---	---------------------

Definition: AN INDICATION OF WHETHER OR NOT A METAL STRAP, CABLE, WIRE, OR THE LIKE, IS INCLUDED TO PROVIDE A CURRENT PATH TO GROUND TO ASSURE THAT THE ITEM WILL NOT BE ELECTRICALLY CHARGED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AERKDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIIG T  
Section Parts

**SECTION: STANDARD**

APP

Key    MRC            Mode Code    Requirements

ALL\*

FEAT            G            SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP\*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE\*)

ALL\*

TEST            J            TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321\*;

TESTJA1234A-654321\$\$JB5556A-663654\*;

TESTJAA2345-654321\$JB55566-663654\*)

REPLY  
CODE

REPLY (AC28)

- |   |  |
|---|--|
| A | SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.) |
| B | STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)   |

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

		C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)
--	--	---	---

ALL\*

SPCL	G	SPECIAL TEST FEATURES	
------	---	-----------------------	--

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS\*)

ALL\*

ZZZK	J	SPECIFICATION/STANDARD DATA	
------	---	-----------------------------	--

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B\*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/\*;

ZZZKJP80205-NAS1103\*;

ZZZKJS81349-MIL-C-1140C/CE/\*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103\*)

FIIG T  
Section Parts

APP

Key    MRC            Mode Code    Requirements

---

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL \* (See Note Above)

ZZZT            J            NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1\*; ZZZTJTY1\$JSTA\*; ZZZTJTY1\$JSTA\*)

ALL\*

ZZZW            G            DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

---

ALL\*

ZZZX	G	DEPARTURE FROM CITED DESIGNATOR
------	---	---------------------------------

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL\*)

ALL\*

ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
------	---	--

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS\*; ZZZYGAS DIFFERENTIATED BY MATERIAL\*)

ALL\*

CRTL	A	CRITICALITY CODE JUSTIFICATION
------	---	--------------------------------

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL\*; CRTLAMATL\$\$ASURF\*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL\* (See Note Above)

FIIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

PRPY	A	PROPRIETARY CHARACTERISTICS
------	---	-----------------------------

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS\*; PRPYANPAC\*; PRPYAMATL\$\$ASURF\*)

ALL\*

ELRN	G	EXTRA LONG REFERENCE NUMBER
------	---	-----------------------------

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365\*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

NOTE FOR MRC NHCF: IF THE CRITICALITY CODE IS E, H, OR M, REPLY TO MRC NHCF.

ALL\* (See Note Above)

NHCF	D	NUCLEAR HARDNESS CRITICAL FEATURE
------	---	-----------------------------------

Definition: AN INDICATION OF THE NUCLEAR HARDNESS CRITICALITY OF THE ITEM.

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

Reply Instructions: Enter the Reply Code from the table below. (e.g., NHCFCY\*)

REPLY CODE  
CY

REPLY (AD05)  
HARDENED

ALL\*

ELCD      D      EXTRA LONG CHARACTERISTIC DESCRIPTION

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA\*)

REPLY  
CODE  
A

REPLY (AN58)  
ADDITIONAL DESCRIPTIVE DATA ON MANUAL  
RECORD

FIIG T  
Section Parts

**SECTION: SUPPTECH**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

AFJK	J	CUBIC MEASURE
------	---	---------------

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJB8.000\*)

<u>REPLY CODE</u>	<u>REPLY (AD42)</u>
C	CUBIC CENTIMETERS
B	CUBIC INCHES

ALL

AGAV	G	END ITEM IDENTIFICATION
------	---	-------------------------

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear text.

(e.g., AGAVG3930-00-000-0000\*;

AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A\*)

ALL

ALXZ	G	SPECIFIC USAGE DESIGN
------	---	-----------------------

Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the reply in clear text.

(e.g., ALXZGDESIGNED FOR LGM-3C\*)

ALL

PRMT	D	PRECIOUS MATERIAL
------	---	-------------------

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

FIIG T  
Section Parts

APP  
Key    MRC                    Mode Code            Requirements

---

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000\*; PRMTDAUA000\$\$DAGA000\*; PRMTDAGA000\$DAUA000\*)

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

ALL

PMWT                    J                    PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780\*; PMWTJUA000F0.500\$\$JAGA000R0.780\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AG14)</u>
E	GRAINS, TROY
R	GRAMS
F	OUNCES, TROY

ALL

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	PMLC	J	PRECIOUS MATERIAL AND LOCATION

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the location in clear text. (e.g., PMLCJUAUA000TERMINALS\*; PMLCJUAUA000TERMINALS\$\$JAGA000INTERNAL SURFACES\*; PMLCJAGA000TERMINALS\$JUAUA000INTERNAL SURFACES\*)

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

ALL

SUPP	G	SUPPLEMENTARY FEATURES
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Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT\*)

ALL

FCLS	A	FUNCTIONAL CLASSIFICATION
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Definition: THE ALPHA-NUMERIC DESIGNATION THAT IDENTIFIES THE CLASSIFICATION OF THE ITEM ACCORDING TO THE CATEGORY OF FUNCTIONS PERFORMED.

Reply Instructions: Enter the reply from the applicable document.

(e.g., FCLSAHH-1.5\*)

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
ALL			
	FTLD	G	FUNCTIONAL DESCRIPTION
	Definition: DESCRIBES THE CAPABILITIES, INTENDED USE, AND/OR PURPOSE FOR WHICH THE ITEM IS PROVIDED.		
	Reply Instructions: Enter description of function as concisely as possible. (e.g., FTLDGUSED TO INSTALL/REMOVE ENGINE NACELLE*)		
ALL			
	TMDN	A	TYPE/MODEL DESIGNATION
	Definition: THE ALPHA-NUMERIC-ALPHA DESIGNATION USED TO IDENTIFY THE TYPE AND/OR MODEL OF THE BASIC ITEM.		
	Reply Instructions: Enter the appropriate designation data.		
	(e.g., TMDNAMS V-615/M*)		
ALL			
	RTSE	G	RELATIONSHIP TO SIMILAR EQUIPMENT
	Definition: INDICATES THE RELATIONSHIP, SUCH AS CONSTRUCTION, CAPABILITIES, AND THE LIKE, OF THE ITEM TO A SIMILAR ITEM.		
	Reply Instructions: Enter concise statement for similar item including name and identifying data.		
	(e.g., RTSEGSIMILAR TO LOCKHEED OVERWING ENGINE HOIST P/N 61521-58*)		
ALL			
	RDAL	G	REFERENCE DATA AND LITERATURE
	Definition: LITERATURE AND REFERENCES AVAILABLE FOR INFORMATION PERTAINING TO THE ITEM.		
	Reply Instructions: Enter data appropriate and in a concise manner to identify informational references covering the item.		
	(e.g., RDALGNAAVAIROIA/VFK58 A-2.2.9*)		

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL

NTRD	A	ENTRY DATE
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Definition: INDICATE THE DATE THE ITEM WAS ENTERED INTO MIL-HDBK-300.

Reply Instructions: Enter the date structured in three hyphenated 2 position segments to indicate the last 2 digits of the calendar year, month, and day.

(e.g., NTRDA80-05-28\*)

ALL

ZZZP	J	PURCHASE DESCRIPTION IDENTIFICATION
------	---	-------------------------------------

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document.

(e.g., ZZZPJ81A37-30624A\*)

ALL

ZZZV	G	FSC APPLICATION DATA
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Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM,GASOLINE ENGINE, NONAIRCRAFT\*)

ALL \*

CXC Y	G	PART NAME ASSIGNED BY CONTROLLING AGENCY
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Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

FIIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR  
CONTROL BOARD\*)

FIG T  
Section Parts

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## Reply Tables

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Table 1 - MATERIALS  
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
ALB000	ALUMINUM FOIL
ALAB00	ALUMINUM, LAMINATED
A	ANY ACCEPTABLE (do not use for MRC BFQX)
AAAAAA	ANY ACCEPTABLE (do not use for MRCS MATL and BCYY)
BN0000	BRONZE
DF0000	CLOTH
DFCCCJ	CLOTH, PLASTIC COATED
FG0000	FIBERGLASS
	Foil (use REPLY CODE ALB000)
ME0000	METAL
PF0000	PAPER
PC0000	PLASTIC
PCAAAR	PLASTIC, CELLULOSE ACETATE
PCBJ00	PLASTIC, METALLIZED
PCAB00	PLASTIC, POLYESTER
PCFFN0	PLASTIC, POLYESTER FILM
PCCR00	PLASTIC, POLYETHYLENE (Mylar)
PCAC00	PLASTIC, POLYETHYLENE TEREPHTHALATE
PL0000	POLYAMIDE NYLON
ST0000	STEEL
WD0000	WOOD

Table 2 - NONDEFINITIVE SPEC/STD DATA  
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

## Reference Drawing Groups

**No table of contents entries found.**

## Technical Data Tables

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## IDENTIFIED SECONDARY ADDRESS CODING (I/SAC)

When the item includes a self-contained power source and the item is also designed for operation from an external power source, the external power source is considered alternate operating. Under this condition reply only alternate operating.

When the item is powered by external power source(s) only reply operating. When the item is powered solely by internal batteries, these batteries do not constitute a self-contained power source but are considered operating.

If you have more than one reply to the same MRC in any series, use I/SAC coding from the Table below to identify the series, then AND (\$\$) Coding for Replies. For example:  
ALTERNATE OPERATING POWER EQUIPMENT shows AC Voltage 110V, 115V, 120V  
code as ACYN1AJVA110.0\$\$JVA115.0\$\$JVA120.0\*.

ACYN1AJVA110.0\$\$JVA115.0\$\$JVA120.0\*.

IDENTIFIED SECONDARY ADDRESS CODING (I/SAC) for MRCs ACYN, ACZB, FAAZ, ACYR, ALSF.

<u>REPLY CODE</u>	<u>REPLY (0360)</u>
1A	1ST ALTERNATE OPERATING POWER RQMT
1M	1ST OPERATING POWER RQMT
1B	2ND ALTERNATE OPERATING POWER RQMT
1N	2ND OPERATING POWER RQMT
1C	3RD ALTERNATE OPERATING POWER RQMT
1P	3RD OPERATING POWER RQMT
1D	4TH ALTERNATE OPERATING POWER RQMT
1Q	4TH OPERATING POWER RQMT
1E	5TH ALTERNATE OPERATING POWER RQMT
1R	5TH OPERATING POWER RQMT
1F	6TH ALTERNATE OPERATING POWER RQMT
1S	6TH OPERATING POWER RQMT
1G	7TH ALTERNATE OPERATING POWER RQMT
1T	7TH OPERATING POWER RQMT
1H	8TH ALTERNATE OPERATING POWER RQMT
1U	8TH OPERATING POWER RQMT

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APPENDIX C

<u>REPLY CODE</u>	<u>REPLY (0360)</u>
1J	9TH ALTERNATE OPERATING POWER RQMT
1V	9TH OPERATING POWER RQMT
1K	10TH ALTERNATE OPERATING POWER RQMT
1W	10TH OPERATING POWER RQMT
1L	11TH ALTERNATE OPERATING POWER RQMT
1X	11TH OPERATING POWER RQMT

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APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

## **FIIG Change List**

FIIG Change List, Effective September 3, 2010

This change replaced with ISAC or and/or coding.